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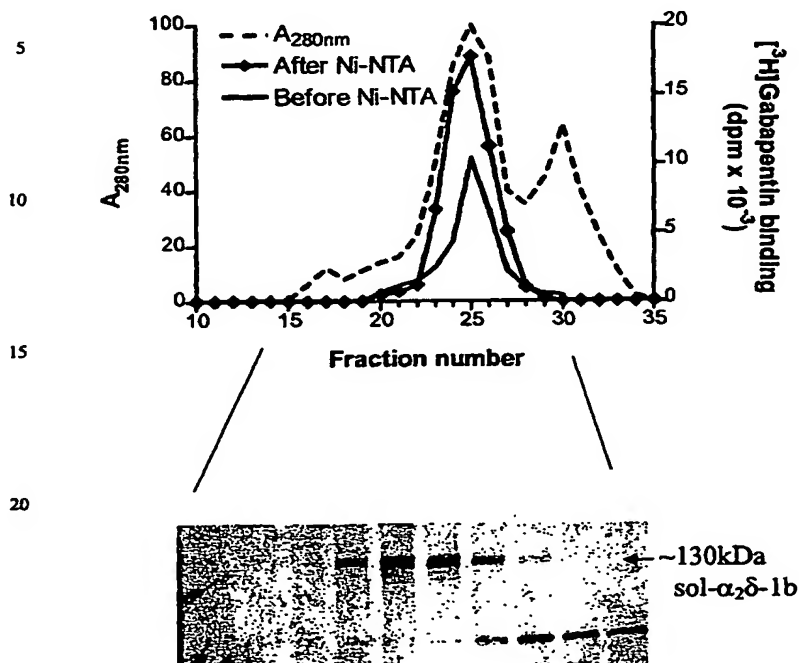
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(54) Title: SCREENING FOR $\alpha_2\delta$ -1 SUBUNIT BINDING LIGANDS



(57) Abstract: A method for the screening of ligands which bind to soluble $\alpha_2\delta$ -1 subtype polypeptides. The invention also relates to compositions and kits for implementing such methods, as well as to the ligands selected or identified using the same.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/68 G01N33/94 C07K14/705

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>HOFMANN F ET AL: "Voltage-dependent calcium channels: From structure to function."</p> <p>REVIEWS OF PHYSIOLOGY BIOCHEMISTRY AND PHARMACOLOGY,</p> <p>vol. 139, 1999, pages 33-87, XP000998424</p> <p>1999 Springer-Verlag; Springer-Verlag New York, Inc. Heidelberger Platz 3, D-1000 Berlin, Germany; 175 Fifth Avenue, New York, New York 10010, USA</p> <p>ISBN: 3-540-65694-4</p> <p>page 42, paragraph 3 -page 44, paragraph 1</p> <p>---</p> <p>-/--</p>	10-19



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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International Application No

PCT/EP 00/09136

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WITCHER DERRICK R ET AL: "Characterization of the purified N-type Ca-2+ channel and the cation sensitivity of omega-conotoxin GVIA binding." NEUROPHARMACOLOGY, vol. 32, no. 11, 1993, pages 1127-1139, XP002165606 ISSN: 0028-3908 page 1128, column 2, paragraph 5 -page 1129, column 1, paragraph 1</p>	10-19
A	<p>BROWN JASON P ET AL: "Cloning and deletion mutagenesis of the alpha2delta calcium channel subunit from porcine cerebral cortex. Expression of a soluble form of the protein that retains (3H)gabapentin binding activity." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 39, pages 25458-25465, XP002165607 ISSN: 0021-9258 the whole document</p>	1-30
A	<p>WO 99 28342 A (SIBIA NEUROSCIENCES INC ;WILLIAMS MARK (US); HANS MICHAEL (US); HA) 10 June 1999 (1999-06-10) claims 1,6-8,22</p>	1,2, 10-19, 23-26, 29,30
A	<p>WO 96 03122 A (WARNER LAMBERT CO) 8 February 1996 (1996-02-08) page 11, line 6 -page 13, line 9</p>	1-6, 20-30
P,A	<p>WO 00 20450 A (WARNER LAMBERT CO ;MOLDOVER BRIAN (US); JOHNS MARGARET ANN (US); O) 13 April 2000 (2000-04-13) page 34, line 9 -page 35, line 26; claim 17; example 1</p>	1-6, 20-30
A	<p>BROWN JASON P ET AL: "Isolation of the (3H)gabapentin-binding protein/alpha2delta Ca2+ channel subunit from porcine brain: Development of a radioligand binding assay for alpha2delta subunits using (3H)leucine." ANALYTICAL BIOCHEMISTRY, vol. 255, no. 2, 15 January 1998 (1998-01-15), pages 236-243, XP002165608 ISSN: 0003-2697 cited in the application the whole document</p>	1-30

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WANG MINGHAN ET AL: "Structural requirement of the calcium-channel subunit alpha2delta for gabapentin binding." BIOCHEMICAL JOURNAL, vol. 342, no. 2, pages 313-320, XP000998401 ISSN: 0264-6021 the whole document</p>	1-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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